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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/994,447	12/19/1997	KAZUMI SUGA	35C12464	6639

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EXAMINER

SRIVASTAVA, VIVEK

ART UNIT	PAPER NUMBER
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2611

DATE MAILED: 02/27/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
08/994,447

Applicant(s)
Kazumi Suga

Examiner
Vivek Srivastava

Art Unit
2611



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on _____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11-13, and 16-21 is/are rejected.
- 7) ☒ Claim(s) 10, 14, and 15 is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☐ All b) ☐ Some* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892) 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 16) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) ☐ Notice of Informal Patent Application (PTO-152)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____ 20) ☐ Other: _____

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DETAILED ACTION

Claim Rejections - 35 U.S.C. § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

2. Claims 1 - 9, 11 - 13, and 16 - 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Kesatoshi et al (5,874,937).

Considering claims 1, 9, 13, 19, 20 and 21 Kesatoshi discloses an input means for inputting an image signal, a judgement and detection means for judging the resolution and detecting a change in the resolution (col 1 lines 37 - 50, col 3 lines 11 - 29), and a the claimed interpolation means (col 1 lines 41 - 50, col 2 lines 5 - 29, interpolating means met by scaling means).

Considering claim 2, Kesatoshi discloses the claimed computer display and television (see col 3 lines 1 - 29, col 8 line 54 - col 9 line 22).

Considering claim 3, Kesatoshi discloses converting the image signal of the television format from a field unit signal into a frame unit signal (col 8 line 54 - col 9 line 22).

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Considering claim 4, Kesatoshi discloses interpolating the horizontal and vertical resolution (see col 3 line 53 - col 4 line 38) which meets the limitation of interpolating the image signal to have a horizontal resolution same as the horizontal resolution of a display device, if said detection means detects that the change in the image signal is large, and in other cases, interpolates the image signal to have a horizontal and vertical resolution same as the horizontal and vertical resolutions of the display.

. Considering claim 5, Kesatoshi discloses down-converting and contracting the resolution of the input image (col 9 lines 6 - 22 and col 1 lines 39 - 50) which meets the claimed limitation.

Considering claim 6, Kesatoshi discloses interpolating the image signal to display the same resolution of the image as that of the display thus meeting the claimed limitation (see col 3 line 53 - col 4 line 38).

Considering claim 7, Kesatoshi discloses the claimed wherein the judgement means judges a resolution in accordance with a sync signal contained in the image signal (col 1 lines 57-65).

Considering claim 8, Kesatoshi discloses the claimed wherein the judgement means judges resolution by measuring horizontal and vertical sync signals contained in the image signal (col 4 lines 8 - 67).

Considering claim 11, see claim 7.

Considering claim 12, see claim 8.

Considering claim 16, see claim 7.

Considering claim 17, see claim 8.

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Considering claim 18, see claim 3.

Allowable Subject Matter

3. Claims 10, 14 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sekine et al (5,754,710) - Image resolution conversion

Silverberg (4,670,773) - Increasing television resolution

Welman et al (5,103,306) - Digital image compression employing a resolution gradient

Any response to this action should be mailed to:

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or faxed to:

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(703) 872-9314, (for formal communications intended for entry)

Or:

(703) 308- 5399 (for informal or draft communications, please label

"PROPOSED" or "DRAFT")


Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vivek Srivastava whose telephone number is (703) 305 - 4038. The examiner can normally be reached on Monday - Thursday from 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andy Faile, can be reached at (703) 305 - 4380.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 305 - 3900.

2/19/02


VIVEK SRIVASTAVA
PATENT EXAMINER